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# Inventor Information for 10/533581

Inventor Name	City	State/Country
NISHIDA, NOBUKATSU	SHIGA-KEN	JAPAN
IWATA, HIROSHI	HIROSHIMA-KEN	JAPAN
KAWANAMI, TOSHIHIKO	HIROSHIMA-KEN	JAPAN
TAJIMA, TOSHIMI	HIROSHIMA-KEN	JAPAN

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US 7110297 B2	20060919	Semiconductor storage device and mobile electronic apparatus	365/185.14	257/314; 365/185.03; 365/185.18; 365/189.01	Morikawa; Yoshinao et al.
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US 7102941 B2	20060905	Semiconductor memory device and portable electronic apparatus	365/200	365/185.09; 365/185.11; 365/185.13; 365/230.06	Yaoi; Yoshifumi et al.
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US 7088618 B2	20060808	Method of evaluating characteristics of semiconductor memory element, and method of extracting model parameter of semiconductor memory element	365/185.05	365/185.06; 365/185.14	Hoshino; Kozo et al.
US 7085166 B2	20060801	Semiconductor memory device and programming method thereof	365/185.2	257/E21.21; 257/E21.423; 257/E29.308; 365/185.19	Iwase; Yasuaki et al.
US 7084465 B2	20060801	Semiconductor device having device isolation region and portable electronic device	257/392	257/213; 257/288; 257/368; 257/E21.544; 257/E21.642; 257/E21.644; 257/E27.067; 257/E29.263	Shibata; Akihide et al.
US 7082057 B2	20060725	Semiconductor memory device	365/185.2	257/E21.21; 365/185.18; 365/185.24; 365/185.26	Shibata; Akihide et al.
US 7079421 B2	20060718	Method of improving data retention ability of semiconductor memory device, and semiconductor memory device	365/185.24	365/185.28	Yaoi; Yoshifumi et al.
US 7074676 B2	20060711	Memory film, method of manufacturing the memory film, memory element, semiconductor storage device, semiconductor integrated circuit, and portable electronic equipment	438/260	257/317; 257/E21.209; 257/E27.103; 438/288; 438/962	Iwata; Hiroshi et al.
US 7064982 B2	20060620	Semiconductor memory device and portable electronic apparatus	365/185.18	257/E21.21; 257/E29.309; 365/185.13; 365/185.23	Yaoi; Yoshifumi et al.
US 7061808 B2	20060613	Semiconductor memory device, driving method thereof, and portable electronic apparatus	365/185.19	257/315; 257/316; 257/E21.21; 257/E21.423; 257/E29.308; 365/185.26; 365/185.33	Yaoi; Yoshifumi et al.

US 7053437 B2	20060530	Semiconductor memory device, semiconductor device and methods of manufacturing them, portable electronic equipment, and IC card	257/314	257/E21.21; 257/E21.423; 257/E27.103; 438/201	Iwata; Hiroshi et al.
US 7050337 B2	20060523	Writing control method and writing control system of semiconductor storage device, and portable electronic apparatus	365/189.05	365/189.04	Iwase; Yasuaki et al.
US 7050331 B2	20060523	Semiconductor memory device and portable electronic apparatus	365/185.05	257/315; 257/316; 257/E21.21; 257/E21.423; 365/189.05	Matsuoka; Nobuaki et al.
US 7038282 B2	20060502	Semiconductor storage device	257/390	257/202; 257/316; 257/317; 257/391; 257/E21.21; 257/E21.423; 257/E29.309; 365/185.14; 365/185.16; 365/185.18; 365/185.22; 365/185.28; 365/185.33; 365/200	Tokui; Kei et al.
US 7030456 B2	20060418	Resistance-changing function body, memory element, manufacturing method therefor, memory device, semiconductor device and electronic equipment	257/508	257/529; 257/537; 257/E21.667; 257/E27.071; 257/E27.102	Arai; Nobutoshi et al.
US 7023731 B2	20060404	Semiconductor memory device and portable electronic apparatus	365/185.14	365/185.28; 365/185.29	Hamaguchi; Koji et al.
US 7012718 B2	20060314	Color correcting method and recorded medium on which color correcting program is recorded	358/3.23	358/1.9; 358/2.1	Nishida; Nobukatsu et al.
US 7009892 B2	20060307	Semiconductor memory device and portable electronic	365/189.04	257/E21.21; 257/E21.423; 365/185.25;	Morikawa; Yoshinao et al.



		apparatus		365/189.01	
US 7009884 B2	20060307	Semiconductor storage device, display device and portable electronic equipment	365/185.22	257/E21.21; 257/E21.423; 257/E29.309; 365/185.05; 365/185.15	Yaoi; Yoshifumi et al.
US 6992933 B2	20060131	Programming verification method of nonvolatile memory cell, semiconductor memory device, and portable electronic apparatus having the semiconductor memory device	365/185.22	257/E21.209; 257/E21.21; 257/E21.422; 257/E21.423; 257/E29.308; 365/185.2	Iwase; Yasuaki et al.
US 6992930 B2	20060131	Semiconductor memory device, method for driving the same and portable electronic apparatus	365/185.18	365/185.05; 365/185.23	Matsuoka; Nobuaki et al.
US 6992926 B2	20060131	Driver circuit for semiconductor storage device and portable electronic apparatus	365/185.23	257/E21.21; 257/E29.309; 365/185.05; 365/230.06	Iwase; Yasuaki et al.
US 6990022 B2	20060124	Semiconductor memory device and portable electronic apparatus	365/185.28	257/E21.21; 257/E21.423; 365/185.05; 365/185.29	Morikawa; Yoshinao et al.
US 6985397 B2	20060110	Semiconductor storage device and portable electronic equipment having the same	365/226	365/185.18; 365/185.19	Tokui; Kei et al.
US 6982906 B2	20060103	Electrically programmable and electrically erasable semiconductor memory device	365/185.19	257/E21.21; 365/185.28	Matsuoka; Nobuaki et al.
US 6977843 B2	20051220	Semiconductor memory device with malfunction prevention device, and portable electronic apparatus using the same	365/185.18	257/E21.21; 257/E21.423; 257/E29.308; 365/189.09	Hamaguchi; Koji et al.
US 6975551 B2	20051213	Semiconductor storage, mobile electronic device, and detachable storage	365/226	257/E29.302; 257/E29.309; 365/222; 365/227; 365/229	Iwata; Hiroshi et al.
US 6969893 B2	20051129	Semiconductor device and portable electronic apparatus	257/368	257/296; 257/314; 257/341; 257/342;	Shibata; Akihide et al.

				257/355; 257/369; 257/371; 257/374; 257/390; 257/391; 257/392; 257/401; 257/506; 257/510; 257/E21.548; 257/E21.644; 257/E27.062; 257/E27.063; 438/199; 438/221; 438/223	
US 6927463 B2	20050809	Semiconductor device and method for fabricating the same	257/401	257/368; 257/369; 257/371; 257/E21.638; 257/E21.644; 257/E27.067	Iwata; Hiroshi et al.
US 6894929 B2	20050517	Method of programming semiconductor memory device having memory cells and method of erasing the same	365/185.14	365/185.19; 365/185.22	Matsuoka; Nobuaki et al.
US 6881302 B2	20050419	Former for use in paper production	162/300	162/299; 162/301; 162/351; 162/352	Masuda; Kazuhiko et al.
US 6876055 B2	20050405	Semiconductor device and its production method	257/510	257/511; 257/513; 257/514; 257/E21.544; 257/E21.549; 257/E21.552; 257/E21.628; 257/E21.63	Iwata; Hiroshi et al.
US 6862251 B2	20050301	Semiconductor memory device	365/233.5	257/E21.208; 257/E21.21; 257/E21.423; 257/E21.436; 257/E29.308; 365/185.05; 365/189.07	Yaoi; Yoshifumi et al.
US 6853208 B2	20050208	Vertical probe card	324/758	324/158.1; 324/754	Okubo; Masao et al.
US 6825528 B2	20041130	Semiconductor device, method of manufacture thereof, and information	257/336	257/408; 257/E21.145; 257/E21.43; 257/E21.438;	Iwata; Hiroshi et al.

		processing device		257/E21.444; 257/E21.634; 257/E21.64; 257/E21.642; 257/E29.267	
US 6787410 B2	20040907	Semiconductor device having dynamic threshold transistors and element isolation region and fabrication method thereof	438/221	257/E21.548; 257/E21.633; 257/E29.263; 438/199; 438/223; 438/224; 438/227; 438/228; 438/404; 438/424	Iwata; Hiroshi et al.
US 6774440 B1	20040810	Semiconductor device and method for driving the same	257/369	257/368; 257/371; 257/E29.064; 257/E29.281; 257/E29.287	Shibata; Akihide et al.
US 6747316 B2	20040608	Surface-channel metal-oxide semiconductor transistors, their complementary field-effect transistors and method of producing the same	257/344	257/345; 257/372; 257/408; 257/E21.199; 257/E21.435; 257/E21.438; 257/E21.634; 257/E21.637	Matsuoka; Toshimasa et al.
US 6720627 B1	20040413	Semiconductor device having junction depths for reducing short channel effect	257/369	257/351; 257/370; 257/371; 257/384; 257/456; 257/E21.165; 257/E21.199; 257/E21.335; 257/E21.337; 257/E21.338; 257/E21.438; 257/E21.633	Iwata; Hiroshi et al.
US 6700170 B1	20040302	Insulated gate transistor having a gate insulator containing nitrogen atoms and fluorine atoms	257/410	257/288; 257/E21.193; 257/E21.194; 257/E21.637; 257/E21.639; 257/E29.162	Morosawa; Narihiro et al.
US 6682966 B2	20040127	Semiconductor device and method for producing the same	438/207	257/199; 257/204; 257/288; 257/372; 257/374; 257/377; 257/69; 257/E21.415; 257/E29.286; 438/199;	Iwata; Hiroshi et al.

				438/299; 438/301	
US 6677212 B1	20040113	Elevated source/drain field effect transistor and method for making the same	438/303	257/401; 257/E21.166; 257/E21.345; 257/E29.063; 257/E29.121; 257/E29.122; 438/301	Yoshioka; Fumiyoshi et al.
US 6656799 B2	20031202	Method for producing FET with source/drain region occupies a reduced area	438/270	257/E21.151; 257/E21.415; 257/E21.433; 257/E21.438; 257/E21.444; 257/E27.06; 257/E29.117; 257/E29.122; 257/E29.157; 257/E29.286; 438/300	Iwata; Hiroshi et al.
US 6598523 B1	20030729	Gravure printing method	101/170	101/489; 101/DIG.37	Kinoshita; Muneaki et al.
US 6573577 B1	20030603	Semiconductor device and method for fabricating the same	257/401	257/368; 257/369; 257/371; 257/E21.638; 257/E21.644; 257/E27.067	Iwata; Hiroshi et al.
US 6562699 B1	20030513	Process for manufacturing semiconductor device	438/471	257/E21.162; 257/E21.165; 257/E21.199; 257/E21.224; 257/E21.438; 257/E21.444; 257/E21.507; 257/E29.146; 438/438; 438/583	Kataoka; Kotaro et al.
US 6545328 B1	20030408	Semiconductor device	257/413	257/64; 257/66; 257/E21.197; 257/E21.199; 257/E21.301; 257/E21.316; 257/E21.438; 257/E21.444; 257/E21.634; 257/E21.635; 257/E29.154	Morosawa; Narihiro et al.
US 6515340 B2	20030204	Semiconductor device	257/385	257/624; 257/E21.151; 257/E21.415; 257/E21.433; 257/E21.438; 257/E21.444;	Iwata; Hiroshi et al.

				257/E27.06; 257/E29.117; 257/E29.122; 257/E29.157; 257/E29.286; 438/300	
US 6509615 B2	20030121	Semiconductor device having dynamic threshold transistors and element isolation region and fabrication method thereof	257/368	257/369; 257/371; 257/E21.548; 257/E21.633; 257/E29.263	Iwata; Hiroshi et al.
US 6426532 B1	20020730	Semiconductor device and method of manufacture thereof	257/374	257/371; 257/372; 257/377; 257/402; 257/412; 257/E21.415; 257/E29.263; 257/E29.286	Iwata; Hiroshi et al.
US 6388749 B1	20020514	Monitoring apparatus	356/430	356/429	Yamashita; Hiroshi et al.
US 6309511 B1	20011030	Dewatering instrument for a paper machine twin-wire former	162/352	162/301; 162/351	Iwata; Hiroshi et al.
US 6300783 B1	20011009	Probe, manufacture of same, and vertically operative type probe card assembly employing same	324/761	324/754	Okubo; Masao et al.
US 6297114 B1	20011002	Semiconductor device and process and apparatus of fabricating the same	438/305	257/E21.035; 257/E21.191; 257/E21.345; 257/E21.438; 257/E21.633; 257/E27.067; 257/E29.063; 257/E29.266; 438/303; 438/307; 438/595	Iwata; Hiroshi et al.
US 6294922 B1	20010925	Probe for testing a semiconductor integrated circuit	324/761	324/754	Okubo; Masao et al.
US 6291861 B1	20010918	Semiconductor device and method for producing the same	257/385	257/E21.151; 257/E21.415; 257/E21.433; 257/E21.438; 257/E21.444; 257/E27.06; 257/E29.117; 257/E29.122; 257/E29.157; 257/E29.286	Iwata; Hiroshi et al.

US 6288429 B1	20010911	Semiconductor device	257/369	257/57; 257/69; 257/E27.062; 257/E29.064; 257/E29.265	Iwata; Hiroshi et al.
US 6258293 B1	20010710	Refrigeration cycle	252/68	417/410.3; 417/902; 418/178; 418/83; 418/94; 418/97; 418/98; 418/99; 508/485; 508/492; 508/493; 62/114; 62/115; 62/118; 62/474; 62/84	Iizuka; Tadashi et al.
US 6255704 B1	20010703	Semiconductor device and method for fabricating the same	257/401	257/368; 257/369; 257/371; 257/E21.638; 257/E21.644; 257/E27.067	Iwata; Hiroshi et al.
US 6255702 B1	20010703	Semiconductor device having junction depths for reducing short channel effect	257/384	257/900; 257/E21.165; 257/E21.199; 257/E21.335; 257/E21.337; 257/E21.338; 257/E21.438; 257/E21.633	Iwata; Hiroshi et al.
US 6183602 B1	20010206	Twin wire former dewatering device for a paper machine	162/301	162/300; 162/352	Iwata; Hiroshi et al.
US 6178190 B1	20010123	II-VI compound semiconductor light emitting device	372/45.01	257/103; 257/78; 257/E33.021	Naniwae; Koichi et al.
US 6172405 B1	20010109	Semiconductor device and production process therefore	257/371	257/372; 257/379; 257/533; 257/536; 257/E21.644; 257/E27.062; 257/E29.263	Shibata; Akihide et al.
US 6091152 A	20000718	Semiconductor device and method for fabricating the same	257/770	257/754; 257/760; 257/764	Iwata; Hiroshi
US 6078062 A	20000620	II-VI compound semiconductor based light emitting device having recombination regions spatially	257/96	257/190; 257/201; 257/86; 257/87; 257/E33.007;	Kuramoto; Masaru et al.

		arrayed in a planar direction of the active layer to prevent crack propagation		257/E33.021	
US 6029459 A	20000229	Refrigeration cycle	62/84	252/68; 417/410.3; 62/114; 62/115; 62/118; 62/474	Iizuka; Tadashi et al.
US 6028398 A	20000222	Cold cathode fluorescent lamp driving apparatus using a piezoelectric transformer	315/224	315/276; 315/307; 315/DIG.5; 315/DIG.7	Kawasaki; Osamu et al.
US 6013169 A	20000111	Method of reforming a tip portion of a probe	205/224	205/149; 205/228	Okubo; Masao et al.
US 5997693 A	19991207	Stock liquor pressure pulsation absorbing apparatus and method	162/336	137/115.16; 137/115.25; 137/565.34; 162/380; 417/44.2	Hirooka; Hideki et al.
US 5976918 A	19991102	Method of forming insulating film with few hydrogen atom inclusions	438/149	257/E21.269; 438/151; 438/486; 438/487	Matsuoka; Toshimasa et al.
US 5976639 A	19991102	Black matrix laminated film and reactive sputtering apparatus	428/1.1	349/110; 428/209; 428/212; 428/332; 428/457; 428/469; 428/698; 428/699; 428/702	Iwata; Hiroshi
US 5964581 A	19991012	Refrigerant compressor	417/410.3	252/68	Iizuka; Tadashi et al.
US 5960319 A	19990928	Fabrication method for a semiconductor device	438/664	257/E21.165; 257/E21.199; 257/E21.335; 257/E21.337; 257/E21.338; 257/E21.438; 257/E21.633; 438/649; 438/651; 438/659; 438/683; 438/685	Iwata; Hiroshi et al.
US 5946939 A	19990907	Refrigerator and condenser	62/507	165/170	Matsushima; Hiroaki et al.
US 5926741 A	19990720	Method of forming gate dielectric films for MOSFETs	438/778	257/E21.193; 257/E21.285; 257/E29.165;	Matsuoka; Toshimasa et al.

		without generation of natural oxide films		438/769; 438/770	
US 5922181 A	19990713	Black matrix laminated film and reactive sputtering apparatus	204/298.07	204/298.23	Iwata; Hiroshi
US 5898190 A	19990427	P-type electrode structure and a semiconductor light emitting element using the same structure	257/99	257/103; 257/200; 257/744; 257/745; 257/94; 257/E33.063	Iwata; Hiroshi
US 5880500 A	19990309	Semiconductor device and process and apparatus of fabricating the same	257/336	257/344; 257/382; 257/E21.035; 257/E21.191; 257/E21.345; 257/E21.438; 257/E21.633; 257/E27.067; 257/E29.063; 257/E29.266	Iwata; Hiroshi et al.
US 5871617 A	19990216	Paper machine twin-wire former with dewatering limiting blade device	162/301	162/300; 162/352	Iwata; Hiroshi et al.
US 5849634 A	19981215	Method of forming silicide film on silicon with oxygen concentration below 10.sup.18 /cm.sup.3	438/655	257/E21.151; 257/E21.165; 257/E21.199; 257/E21.43; 257/E21.433; 257/E21.438; 257/E29.146; 257/E29.156; 438/656; 438/658; 438/664; 438/682; 438/683	Iwata; Hiroshi
US 5827409 A	19981027	Method and apparatus for forming thin film for liquid crystal display	204/192.15	204/192.26; 204/192.29; 204/298.07; 204/298.25; 204/298.26	Iwata; Hiroshi et al.
US 5746695 A	19980505	Front end structure of endoscope	600/127	600/121; 600/125; 600/129	Yasui; Naoki et al.
US 5725477 A	19980310	Front end structure of endoscope	600/127	600/121; 600/125; 600/129; 600/156; 600/157	Yasui; Naoki et al.
US 5725476 A	19980310	Front end structure of endoscope	600/127	600/121; 600/125; 600/129;	Yasui; Naoki et al.



				600/157	
US 5725475 A	19980310	Front end structure of endoscope	600/127	600/121; 600/129	Yasui; Naoki et al.
US 5725474 A	19980310	Front end structure of endoscope	600/127	600/121; 600/125; 600/129	Yasui; Naoki et al.
US 5711165 A	19980127	Refrigerating apparatus and refrigerant compressor	62/474	252/68; 62/114	Iizuka; Tadashi et al.
US 5705828 A	19980106	Photovoltaic device	257/53	257/52; 257/59; 257/72	Noguchi; Shigeru et al.
US 5694779 A	19971209	Refrigerator and condenser	62/114	62/149; 62/174	Matsushima; Hiroaki et al.
US 5670889 A	19970923	Probe card for maintaining the position of a probe in high temperature application	324/760	324/761; 324/762	Okubo; Masao et al.
US 5670789 A	19970923	Semiconductor light- emitting device with quantum well structure	257/13	257/17; 257/22; 257/23; 257/96; 257/97; 257/E33.005; 257/E33.021; 372/45.01; 372/46.01	Iwata; Hiroshi
US 5566716 A	19961022	Hydraulic control valve	137/636.1	137/596.1; 251/295; 251/51	Togashi; Yoshio et al.
US 5554017 A	19960910	Scroll fluid machine, scroll member and processing method thereof	418/55.2	29/888.02	Kohsokabe; Hirokatsu et al.
US 5545295 A	19960813	Web transfer device	162/358.1	162/306; 162/360.3	Fujita; Norio et al.
US 5519722 A	19960521	II-VI compound semiconductor laser with burying layers	372/46.01	372/45.01	Iwata; Hiroshi
US 5475700 A	19951212	Laser diode with electron and hole confinement and barrier layers	372/45.01	372/46.01	Iwata; Hiroshi
US 5470439 A	19951128	End portion flow rate regulating apparatus for a paper machine headbox	162/216	162/259; 162/336; 162/337	Makino; Tetsuo et al.
US 5455430 A	19951003	Photovoltaic device having a semiconductor grade silicon layer formed on a metallurgical grade substrate	257/53	136/256; 136/258; 136/261; 257/431; 257/461; 257/462;	Noguchi; Shigeru et al.

				257/51; 257/52; 257/E29.003	
US 5454366 A	19951003	Endoscope distal end with folded circuit board	600/109	348/E5.025; 600/128; 600/129	Ito; Keiji et al.
US 5437769 A	19950801	Dewatering instrument for a paper machine twin-wire former	162/301	162/352	Bando; Takashi et al.
US 5427512 A	19950627	Scroll fluid machine, scroll member and processing method thereof	418/55.2	418/150	Kohsokabe; Hirokatsu et al.
US 5427087 A	19950627	Structure of the distal end portion of an endoscope	600/109	600/110; 600/128; 600/129	Ito; Keiji et al.
US 5419783 A	19950530	Photovoltaic device and manufacturing method therefor	438/93	136/249; 136/258; 257/458; 438/483; 438/96	Noguchi; Shigeru et al.
US 5401336 A	19950328	Photovoltaic device	136/255	136/256; 136/258; 136/261; 257/431; 257/458; 257/465; 257/E31.13	Noguchi; Shigeru et al.
US 5378289 A	19950103	Method of forming crystalline silicon film and solar cell obtained thereby	136/258	117/8; 136/256; 257/E31.13; 264/104; 438/486; 438/71	Noguchi; Shigeru et al.
US 5370747 A	19941206	Photovoltaic device	136/259	136/256; 136/258; 257/436; 257/458; 257/466; 257/E31.13	Noguchi; Shigeru et al.
US 5332754 A	19940726	Naphthyloxazolidone derivatives	514/376	548/231; 548/232	Nakai; Hideo et al.
US 5318919 A	19940607	Manufacturing method of thin film transistor	438/166	257/66; 257/72; 257/E21.133; 257/E21.413; 257/E29.277; 257/E29.293; 438/308	Noguchi; Shigeru et al.
US 5295808 A	19940322	Synchronous rotating type scroll fluid machine	417/366	417/410.5; 418/15; 418/188; 418/55.3; 418/55.5;	Machida; Shigeru et al.

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US 5248392 A	19930928	Sheet-forming apparatus for a twin wire paper machine with positive pulse shoe blades	162/301	162/300; 162/352	Bando; Takashi et al.
US 5243216 A	19930907	Phototransistor	257/462	257/464; 257/53; 257/E31.048; 257/E31.069	Noguchi; Shigeru et al.
US 5236516 A	19930817	Photovoltaic apparatus	136/246	136/244; 136/251; 136/256; 136/258; 136/259; 257/E27.125	Noguchi; Shigeru et al.
US 5231297 A	19930727	Thin film transistor	257/77	257/192; 257/65; 257/66; 257/E21.413; 257/E29.277	Nakayama; Shoichiro et al.
US 5221365 A	19930622	Photovoltaic cell and method of manufacturing polycrystalline semiconductive film	136/258	136/261; 148/DIG.122; 148/DIG.153; 148/DIG.90; 257/458; 257/49; 257/51; 257/66; 257/75; 257/E31.044; 257/E31.13; 438/486; 438/488; 438/964; 438/97	Noguchi; Shigeru et al.
US 5213628 A	19930525	Photovoltaic device	136/255	136/258; 136/261; 257/458	Noguchi; Shigeru et al.
US 5211761 A	19930518	Photovoltaic device and manufacturing method thereof	136/258	257/E31.042; 438/97	Noguchi; Shigeru et al.
US 5183780 A	19930202	Method of fabricating semiconductor device	438/151	257/E21.008; 257/E21.133; 257/E21.151; 257/E21.166; 257/E21.413; 257/E21.414; 257/E21.703; 257/E29.277; 257/E29.343; 438/158; 438/394; 438/535; 438/540;	Noguchi; Shigeru et al.

				438/658	
US 5182296 A	19930126	Naphthyloxazolidone derivatives	514/376	548/231; 548/232; 558/411; 560/28; 560/29; 560/30; 564/428	Nakai; Hideo et al.
US 5155051 A	19921013	Method of manufacturing photovoltaic device	438/97	136/258; 257/E27.124; 257/E31.042; 438/486	Noguchi; Shigeru et al.
US 5144391 A	19920901	Semiconductor device which relieves internal stress and prevents cracking	257/190	257/192; 257/349; 257/66; 257/E29.137	Iwata; Hiroshi et al.
US 5137437 A	19920811	Scroll compressor with improved bearing	418/55.1	384/209; 418/151; 418/55.3	Machida; Shigeru et al.
US 5129858 A	19920714	Air-conditioning grille	454/155	454/320	Komori; Takahiro et al.
US 5097338 A	19920317	Scanning type image sensor	358/482	348/E5.079; 358/471	Kuriyama; Hiroyuki et al.
US 5087170 A	19920211	Rotary compressor	415/110	184/6.16; 184/6.18; 184/6.24; 417/366; 417/902	Kousokabe; Hirokatsu et al.
US 5056420 A	19911015	Grilles for air conditioning	454/155	454/315	Komori; Takahiro et al.
US 4871608 A	19891003	High-density wiring multilayered substrate	428/209	106/1.13; 106/1.14; 106/1.18; 106/1.19; 106/1.25; 252/512; 428/210; 428/432; 428/433; 428/689; 428/702; 428/901	Kondo; Kazuo et al.
US 4847538 A	19890711	Electronic flash equipment	315/241P	315/151	Iwata; Hiroshi et al.
US 4837408 A	19890606	High density multilayer wiring board and the manufacturing thereof	174/257	156/89.18; 252/514; 361/792	Kondo; Kazuo et al.
US 4802181 A	19890131	Semiconductor superlattice light emitting device	372/45.012	257/15; 257/22; 257/E33.008; 372/46.01	Iwata; Hiroshi
US 4767226 A	19880830	Print head with wires which continuously contact the tip guide	400/124.24	101/93.05	Sakaida; Atsuo et al.

US 4738330 A	19880419	Hydraulic drive system for use with vehicle power steering pump	180/421	123/41.12; 137/101; 137/115.04; 137/115.09; 180/423; 280/6.157; 60/443; 60/450	Suzuki; Masahiko et al.
US 4710106 A	19871201	Volume controlling device for variable volume pump	417/213	417/218; 417/219; 60/450; 60/459	Iwata; Hiroshi et al.
US 4708773 A	19871124	Impermeable plate for uniformly dispersing paper raw material in a twin wire paper former	162/300	162/301; 162/351	Fujiwara; Haruyoshi et al.
US 4695144 A	19870922	Drive apparatus of lens and exposure mechanism by motor	396/132		Yoshino; Tsunemi et al.
US 4652215 A	19870324	Variable capacity radial piston pump	417/219	92/12.1	Kuroyanagi; Masatoshi et al.
US 4634301 A	19870106	Print head with torsion spring	400/124.21	101/93.05; 101/93.48; 335/270; 335/274; 400/157.2; 55/459.1	Sakaida; Atsuo et al.
US 4632530 A	19861230	Automatic film winding system	396/397		Iwata; Hiroshi et al.
US 4601641 A	19860722	Discharge pressure-dependant variable-capacity radial plunger pump	417/220		Kuroyanagi; Masatoshi et al.
US 4596449 A	19860624	Zoom lens apparatus	359/696	359/700; 359/823	Iwata; Hiroshi et al.
US 4585313 A	19860429	Lens drive device and optical lens assembly utilizing the same	359/696	359/700; 359/823	Iwata; Hiroshi et al.
US 4581726 A	19860408	Ultrasonic distance measuring apparatus	267/99	367/902; 367/99	Makino; Hiroshi et al.
US 4578783 A	19860325	Ultrasonic distance measuring apparatus	367/99	367/138	Iwata; Hiroshi et al.
US 4571101 A	19860218	Print head	400/124.13	335/300; 400/719	Sakaida; Atsuo et al.
US 4561829 A	19851231	Rotary compressor with tapered valve ports for lubricating pump	417/368	184/6.16; 417/410.1; 417/410.3; 417/490; 417/557; 417/902; 418/63; 418/88; 418/94	Iwata; Hiroshi et al.

US 4544338 A	19851001	Oil feeder means for use in a horizontal type rotary compressor	418/63	184/6.16; 417/368; 417/557; 417/902; 418/87; 418/88	Takebayashi; Masahiro et al.
US 4479076 A	19841023	Power saving device for electronic flash	315/241 P	315/225; 315/360	Yamaoka; Tetsuo et al.
US 4472042 A	19840918	Flash camera	396/165	396/176	Iwata; Hiroshi et al.
US 4472039 A	19840918	Photographic lens device having a step motor mounted on the lens barrel	396/508		Iwata; Hiroshi et al.
US 4461560 A	19840724	Photographic information display device	396/284	396/292	Yoshino; Tsunemi et al.
US 4443087 A	19840417	Focus state indicator	396/105	396/147; 396/283	Kashihara; Toshitsugu et al.
US 4431288 A	19840214	Camera with liquid crystal aperture control means	396/89	396/166	Iwata; Hiroshi et al.
US 4423941 A	19840103	Device for shifting lens group	396/133	359/824	Iwata; Hiroshi et al.
US 4423940 A	19840103	Photographic equipment	396/62	362/18	Kashihara; Toshitsugu et al.
US 4394077 A	19830719	Device for detecting sharp focusing	396/101	396/106; 396/147; 396/354	Yoshino; Tsunemi et al.
US 4384772 A	19830524	Camera	396/133		Hatada; Kotaro et al.
US 4381146 A	19830426	Piezoelectric aperture size control device	396/505		Yoshino; Tsunemi et al.
US 4372657 A	19830208	Device for indicating photographic exposure conditions	396/287	396/296; 396/373	Iwata; Hiroshi et al.
US 4371245 A	19830201	Photographing lens system with focus informing means	396/105	359/825; 396/129; 396/147; 396/298	Iwata; Hiroshi et al.
US 4364652 A	19821221	Automatic focusing camera	396/80	396/105; 396/529	Iwata; Hiroshi et al.
US 4362370 A	19821207	Automatic film transport device	396/407	226/33; 242/333.2; 242/333.7; 396/284; 396/395	Iwata; Hiroshi et al.
US 4352546 A	19821005	Camera selectively settable to either standard photographic mode or supertelephotographic mode	396/61	396/176; 396/378	Iwata; Hiroshi et al.

US 4341449 A	19820727	Camera capable of standard and close-up exposures	396/61	396/377; 396/378; 396/71	Iwata; Hiroshi et al.
US 4336985 A	19820629	Camera with macro-photographic system	396/155	396/373	Iwata; Hiroshi et al.
US 4325621 A	19820420	Electronic flash device	396/175	362/18	Iwata; Hiroshi et al.
US 4310785 A	19820112	Electronic photographic flash apparatus	315/241P	315/171; 315/173; 396/206	Iwata; Hiroshi et al.
US 4284336 A	19810818	Automatic focusing camera	396/105	396/463	Iwata; Hiroshi et al.
US 4280760 A	19810728	Flash camera	396/67	396/167; 396/207; 396/214	Iwata; Hiroshi et al.
US 4270853 A	19810602	Sound-recording instant-printing film and camera therefor	396/33	358/906; 360/2; 396/312; 396/320; 396/366; 430/140; 430/207; 430/497	Hatada; Kotaro et al.
US 4252428 A	19810224	Radio-receiver-built-in flash camera	396/59	396/434; 455/154.1; 455/344	Iwata; Hiroshi et al.
US 4235547 A	19801125	Photographic camera	396/147	396/289	Iwata; Hiroshi et al.
US 4229092 A	19801021	Distance indicator for camera	396/147		Iwata; Hiroshi et al.
US 4181581 A	19800101	Acrylonitrile block-copolymer composition	524/409	524/505; 525/94	Iwata; Hiroshi et al.
US 4147420 A	19790403	Flash camera	396/148	396/147; 396/204	Iwata; Hiroshi et al.
US 4131351 A	19781226	Battery checker for a camera with a flash light unit	396/203	200/308; 396/279; 396/287	Iwata; Hiroshi et al.
US 4122466 A	19781024	Zoom lens camera equipped with flash unit	396/62	396/159; 396/274	Iwata; Hiroshi et al.
US 4119988 A	19781010	Camera using instant print film	396/30	396/287; 396/293; 396/296	Iwata; Hiroshi et al.
US 4112447 A	19780905	Flash and camera device	396/205	396/543	Iwata; Hiroshi et al.
US 4111000 A	19780905	Room air conditioner	62/262	62/427	Sakazume; Akio et al.
US 4084169 A	19780411	Automatic film advancing system	396/409	396/395; 396/397	Iwata; Hiroshi et al.
US 4084167 A	19780411	Flash and camera device	396/205		Iwata; Hiroshi et al.
US 4083058 A	19780404	Flash and camera apparatus having a plurality of flash and	396/203	396/205	Iwata; Hiroshi et al.

		daylight operation modes			
US 4082984 A	19780404	Electric flash device with printed coil transformer	315/241P	315/276; 315/278; 331/112; 331/113A; 396/205	Iwata; Hiroshi
US 4079390 A	19780314	Aperture setting device for use with exposure control device	396/260	396/262	Iwata; Hiroshi et al.
US 4074287 A	19780214	Flash and camera device	396/161	396/276	Iwata; Hiroshi et al.
US 4072963 A	19780207	Programme-controlled shutter	396/233	396/244	Iwata; Hiroshi et al.
US 4068150 A	19780110	Voltage indication means for an electronic flashing device	315/241P	315/135; 315/136; 396/203; 396/206	Iwata; Hiroshi et al.
US 4065776 A	19771227	Camera with automatic flash exposure system	396/66	396/155; 396/260	Iwata; Hiroshi et al.
US 4057810 A	19771108	Exposure control system	396/244	396/301	Iwata; Hiroshi
US 4053907 A	19771011	Program-controlled shutter	396/235		Iwata; Hiroshi et al.
US 4041512 A	19770809	Light control device	396/449	396/463	Iwata; Hiroshi et al.
US 4039898 A	19770802	Electronic flash apparatus	315/241P	320/117; 320/130; 396/195	Iwata; Hiroshi et al.
US 4029835 A	19770614	Heat resistant sheet	428/212	428/474.4; 428/910; 442/411	Iwata; Hiroshi et al.
US 4021826 A	19770503	Camera control device	396/59	396/391; 396/493	Iwata; Hiroshi et al.
US 4017872 A	19770412	Shutter for camera	396/256		Iwata; Hiroshi et al.
US 4016574 A	19770405	Program-controlled shutter	396/244		Iwata; Hiroshi et al.
US 4009866 A	19770301	Exposure control device	396/244	396/503	Iwata; Hiroshi et al.
US 4005448 A	19770125	Programmed shutter	396/244		Iwata; Hiroshi et al.
US 3997905 A	19761214	Program-controlled shutter	396/244	396/301	Iwata; Hiroshi et al.
US 3988387 A	19761026	Polyester fibers having excellent dyeability	525/444	524/100; 524/141; 524/147; 524/153; 524/222; 524/291; 524/333; 524/343; 524/349;	Chimura; Kazuya et al.



				524/605; 524/611; 8/539; 8/922; 8/DIG.4	
US 3962185 A	19760608	Polyester compositions having a durable antistatic property	525/437	260/DIG.16; 524/150; 524/151; 525/442; 525/480; 528/167; 528/287	Chimura; Kazuya et al.
US 3953864 A	19760427	Camera device having a photographic flash device combined therewith	396/204		Iwata; Hiroshi et al.
US 3910687 A	19751007	Light control device	359/228	396/452	Iwata; Hiroshi
US 3890538 A	19750617	Photographic electronic flash apparatus	315/241P	315/234; 315/240; 396/180	Iwata; Hiroshi et al.
US 3890536 A	19750617	Electronic flash device for photography	315/151	315/159; 315/241P	Iwata; Hiroshi
US 3878429 A	19750415	ELECTRONIC FLASH DEVICE WITH AUTOMATIC LIGHT CONTROL	315/151	315/159; 315/241P; 315/241R	Iwata; Hiroshi
US 3876288 A	19750408	LIGHT CONTROLLING DEVICE	359/296	252/62.54; 359/297; 396/457	Iwata; Hiroshi et al.
US 3867478 A	19750218	POLYESTER COMPOSITION	524/150	260/DIG.16; 524/126; 524/147; 524/148; 524/151; 524/152; 525/430; 528/101; 528/152; 528/324; 528/327; 528/336; 528/341	Chimura; Kazuya et al.
US 3831079 A	19740820	ELECTRONIC PHOTOGRAPHIC FLASH APPARATUS	363/28	315/209SC; 315/241P	Iwata; Hiroshi
US 3716752 A	19730213	ELECTRONIC FLASH INTENSITY CONTROL CIRCUITS	315/151	250/205; 315/156; 315/159; 315/241P; 315/245; 396/180	Iwata; Hiroshi